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# For Pro Hadoop By Jason Venner

Cybersecurity and  
Privacy in Cyber-  
Physical Systems  
collects and  
reports on recent  
high-quality

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research that  
addresses  
different  
problems related  
to cybersecurity  
and privacy in  
cyber-physical  
systems (CPSs). It  
Presents high-  
quality  
contributions  
addressing related

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theoretical and  
practical aspects  
Improves the  
reader ' s  
awareness of  
cybersecurity and  
privacy in CPSs  
Analyzes and  
presents the state  
of the art of CPSs,  
cybersecurity, and  
related

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technologies and  
methodologies  
Highlights and  
discusses recent  
developments and  
emerging trends  
in cybersecurity  
and privacy in  
CPSs Proposes  
new models,  
practical  
solutions, and

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technological  
advances related  
to cybersecurity  
and privacy in  
CPSs Discusses  
new cybersecurity  
and privacy  
models,  
prototypes, and  
protocols for CPSs  
This  
comprehensive

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book promotes  
high-quality  
research by  
bringing together  
researchers and  
experts in CPS  
security and  
privacy from  
around the world  
to share their  
knowledge of the  
different aspects

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of CPS security.

Cybersecurity and  
Privacy in Cyber-  
Physical Systems  
is ideally suited for  
policymakers,  
industrial  
engineers,  
researchers,  
academics, and  
professionals  
seeking a

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thorough  
understanding of  
the principles of  
cybersecurity and  
privacy in CPSs.  
They will learn  
about promising  
solutions to these  
research problems  
and identify  
unresolved and  
challenging



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problems for their  
own research.

Readers will also  
have an overview  
of CPS

cybersecurity and  
privacy design.

ICSSCET 2015

will be the most  
comprehensive  
conference

focused on the

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various aspects of  
advances in  
Systems, Science,  
Management,  
Medical Sciences,  
Communication,  
Engineering,  
Technology,  
Interdisciplinary  
Research Theory  
and Technology.  
This Conference

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provides a chance  
for academic and  
industry  
professionals to  
discuss recent  
progress in the  
area of  
Interdisciplinary  
Research Theory  
and Technology.  
Furthermore, we  
expect that the

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conference and its publications will be a trigger for further related research and technology improvements in this important subject. The goal of this conference is to bring together the

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researchers from  
academia and  
industry as well as  
practitioners to  
share ideas,  
problems and  
solutions relating  
to the  
multifaceted  
aspects of  
Interdisciplinary  
Research Theory

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and Technology.  
Hadoop in Action  
teaches readers  
how to use  
Hadoop and write  
MapReduce  
programs. The  
intended readers  
are programmers,  
architects, and  
project managers  
who have to

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process large  
amounts of data  
offline. Hadoop in  
Action will lead  
the reader from  
obtaining a copy  
of Hadoop to  
setting it up in a  
cluster and  
writing data  
analytic programs.  
The book begins

# Access Free For Pro Hadoop By Jason Venner

by making the basic idea of Hadoop and MapReduce easier to grasp by applying the default Hadoop installation to a few easy-to-follow tasks, such as analyzing changes in word frequency



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across a body of documents. The book continues through the basic concepts of MapReduce applications developed using Hadoop, including a close look at framework components, use

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of Hadoop for a variety of data analysis tasks, and numerous examples of Hadoop in action. Hadoop in Action will explain how to use Hadoop and present design patterns and practices of

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programming

MapReduce.

MapReduce is a complex idea both conceptually and in its implementation, and Hadoop users are challenged to learn all the knobs and levers for running Hadoop.

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This book takes you beyond the mechanics of running Hadoop, teaching you to write meaningful programs in a MapReduce framework. This book assumes the reader will have a basic familiarity

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with Java, as most code examples will be written in Java. Familiarity with basic statistical concepts (e.g. histogram, correlation) will help the reader appreciate the more advanced

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data processing  
examples.

Purchase of the  
print book comes  
with an offer of a  
free PDF, ePub,  
and Kindle eBook  
from Manning.

Also available is all  
code from the  
book.

Discover how

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graph algorithms can help you leverage the relationships within your data to develop more intelligent solutions and enhance your machine learning models. You ' ll learn how graph

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analytics are uniquely suited to unfold complex structures and reveal difficult-to-find patterns lurking in your data. Whether you are trying to build dynamic network models or forecast real-world



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behavior, this  
book illustrates  
how graph  
algorithms deliver  
value—from  
finding  
vulnerabilities and  
bottlenecks to  
detecting  
communities and  
improving  
machine learning

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predictions. This practical book walks you through hands-on examples of how to use graph algorithms in Apache Spark and Neo4j—two of the most common choices for graph analytics. Also

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included: sample code and tips for over 20 practical graph algorithms that cover optimal pathfinding, importance through centrality, and community detection. Learn how graph analytics vary

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from conventional  
statistical analysis  
Understand how  
classic graph  
algorithms work,  
and how they are  
applied Get  
guidance on  
which algorithms  
to use for different  
types of questions  
Explore algorithm

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examples with  
working code and  
sample datasets  
from Spark and  
Neo4j See how  
connected feature  
extraction can  
increase machine  
learning accuracy  
and precision  
Walk through  
creating an ML

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workflow for link  
prediction  
combining Neo4j  
and Spark  
The ASP.NET MVC  
3 Framework is  
the latest  
evolution of  
Microsoft ' s  
ASP.NET web  
platform. It  
provides a high-

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productivity  
programming  
model that  
promotes cleaner  
code architecture,  
test-driven  
development, and  
powerful  
extensibility,  
combined with all  
the benefits of  
ASP.NET 4. In this

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third edition, the core model-view-controller (MVC) architectural concepts are not simply explained or discussed in isolation, but are demonstrated in action. You 'll work through an extended tutorial



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to create a  
working e-  
commerce web  
application that  
combines ASP.NET  
MVC with the  
latest C# language  
features and unit-  
testing best  
practices. By  
gaining this  
invaluable,

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practical  
experience,  
you ' ll discover  
MVC ' s strengths  
and weaknesses  
for yourself—and  
put your best-  
learned theory  
into practice. The  
book's authors  
Steve Sanderson  
and Adam

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Freeman have both watched the growth of ASP.NET MVC since its first release. Steve is a well-known blogger on the MVC Framework and a member of the Microsoft Web Platform and

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Tools team. Adam started designing and building web applications 15 years ago and has been responsible for some of the world's largest and most ambitious projects. You can be sure you are in

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safe hands.

Designing Cloud  
Data Platforms

Hadoop

Beginner's Guide

Practical Hadoop

Security

Architecting

Modern Data

Platforms

From Mainframes

to Big Data

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Data Flood

Penetration

Testing

Practical Ext

JS 4 will get

you up and

running, using

Ext JS 4.2 for

your projects,

as quickly as

possible.

After a quick

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refresher on  
some  
JavaScript  
basics, you  
will get to  
grips with Ext  
JS 4's OO  
concepts (such  
as mixins) and  
familiarize  
yourself with  
its UI

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components and layout. You'll learn all the core features of the Ext JS framework, such as its MVC architecture, theming and styling your applications,



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and displaying  
data through  
components  
such as grids,  
trees, and  
charts. You'll  
use the Ext JS  
components and  
create an  
entire  
application  
from scratch

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by following  
the many  
practical  
examples.  
Finally,  
you'll learn  
about unit  
testing and  
packaging to  
build and  
deploy better  
applications.

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Provides you  
with a solid  
knowledge of  
the building  
blocks of Ext  
JS 4 Takes you  
through  
developing  
applications  
using the MVC  
architecture  
Demonstrates

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extending the  
UI with custom  
components and  
plugins Shows  
you how to  
unit test Ext  
JS 4  
applications  
with Jasmine  
and deploy  
them with  
Sencha Cmd

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Completely up-  
to-date for  
the latest Ext  
JS 4.2

This book  
provides  
readers the  
“big picture”  
and a  
comprehensive  
survey of the  
domain of big

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data

processing

systems. For

the past

decade, the

Hadoop

framework has

dominated the

world of big

data

processing,

yet recently

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academia and  
industry have  
started to  
recognize its  
limitations in  
several  
application  
domains and  
big data  
processing  
scenarios such  
as the large-

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scale

processing of  
structured  
data, graph  
data and  
streaming  
data. Thus, it  
is now  
gradually  
being replaced  
by a  
collection of



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engines that  
are dedicated  
to specific  
verticals  
(e.g.  
structured  
data, graph  
data, and  
streaming  
data). The  
book explores  
this new wave

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of systems,  
which it  
refers to as  
Big Data 2.0  
processing  
systems. After  
Chapter 1  
presents the  
general  
background of  
the big data  
phenomena,

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## Chapter 2

provides an  
overview of  
various genera  
l-purpose big  
data

processing  
systems that  
allow their  
users to  
develop  
various big

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data

processing

jobs for

different

application

domains. In

turn, Chapter

3 examines

various

systems that

have been

introduced to

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support the  
SQL flavor on  
top of the  
Hadoop  
infrastructure  
and provide  
competing and  
scalable  
performance in  
the processing  
of large-scale  
structured

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data. Chapter  
4 discusses  
several  
systems that  
have been  
designed to  
tackle the  
problem of  
large-scale  
graph  
processing,  
while the main

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focus of

Chapter 5 is

on several

systems that

have been

designed to

provide

scalable

solutions for

processing big

data streams,

and on other

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sets of  
systems that  
have been  
introduced to  
support the  
development of  
data pipelines  
between  
various types  
of big data  
processing  
jobs and



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systems .

Lastly,  
Chapter 6  
shares  
conclusions  
and an outlook  
on future  
research  
challenges .  
Overall, the  
book offers a  
valuable

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**reference  
guide for  
students,  
researchers  
and  
professionals  
in the domain  
of big data  
processing  
systems.  
Further, its  
comprehensive**

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content will  
hopefully  
encourage  
readers to  
pursue further  
research on  
the subject.  
You've heard  
the hype about  
Hadoop: it  
runs  
petabyte-scale

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data mining  
tasks insanely  
fast, it runs  
gigantic tasks  
on clouds for  
absurdly  
cheap, it's  
been heavily  
committed to  
by tech giants  
like IBM,  
Yahoo!, and

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the Apache  
Project, and  
it's  
completely  
open-source  
(thus free).  
But what  
exactly is it,  
and more  
importantly,  
how do you  
even get a

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Hadoop cluster  
up and  
running? From  
Apress, the  
name you've  
come to trust  
for hands-on  
technical  
knowledge, Pro  
Hadoop brings  
you up to  
speed on

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Hadoop. You learn the ins and outs of MapReduce; how to structure a cluster, design, and implement the Hadoop file system; and how to build your first clo

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ud-computing  
tasks using  
Hadoop. Learn  
how to let  
Hadoop take  
care of  
distributing  
and  
parallelizing  
your  
software—you  
just focus on



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the code,  
Hadoop takes  
care of the  
rest. Best of  
all, you'll  
learn from a  
tech  
professional  
who's been in  
the Hadoop  
scene since  
day one.

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Written from  
the  
perspective of  
a principal  
engineer with  
down-in-the-tr  
enches  
knowledge of  
what to do  
wrong with  
Hadoop, you  
learn how to

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avoid the  
common,  
expensive  
first errors  
that everyone  
makes with  
creating their  
own Hadoop  
system or  
inheriting  
someone  
else's. Skip

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the novice  
stage and the  
expensive,  
hard-to-fix  
mistakes...go  
straight to  
seasoned pro  
on the hottest  
cloud-computin  
g framework  
with Pro  
Hadoop. Your

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productivity  
will blow your  
managers away.  
This is the  
eBook of the  
printed book  
and may not  
include any  
media, website  
access codes,  
or print  
supplements

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that may come  
packaged with  
the bound  
book. The  
Comprehensive,  
Up-to-Date  
Apache Hadoop  
Administration  
Handbook and  
Reference “Sam  
Alapati has  
worked with

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Jason Venner  
production

Hadoop  
clusters for  
six years. His  
unique depth  
of experience  
has enabled  
him to write  
the go-to  
resource for  
all  
administrators

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looking to  
spec, size,  
expand, and  
secure  
production  
Hadoop  
clusters of  
any size.”  
—Paul Dix,  
Series Editor  
In Expert  
Hadoop® Admini



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stration,  
leading Hadoop  
administrator  
Sam R. Alapati  
brings  
together  
authoritative  
knowledge for  
creating,  
configuring,  
securing,  
managing, and

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optimizing

production

Hadoop

clusters in

any

environment.

Drawing on his

experience

with large-

scale Hadoop a

dministration,

Alapati

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integrates action-oriented advice with carefully researched explanations of both problems and solutions. He covers an unmatched range of

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topics and  
offers an  
unparalleled  
collection of  
realistic  
examples.

Alapati  
demystifies  
complex Hadoop  
environments,  
helping you  
understand

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exactly what  
happens behind  
the scenes  
when you  
administer  
your cluster.  
You'll gain  
unprecedented  
insight as you  
walk through  
building  
clusters from

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scratch and  
configuring  
high  
availability,  
performance,  
security,  
encryption,  
and other key  
attributes.

The high-value  
administration  
skills you

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learn here

will be

indispensable

no matter what

Hadoop

distribution

you use or

what Hadoop

applications

you run.

Understand

Hadoop's

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architecture  
from an admini  
strator's  
standpoint  
Create simple  
and fully  
distributed  
clusters Run  
MapReduce and  
Spark  
applications  
in a Hadoop



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cluster Manage  
and protect  
Hadoop data  
and high  
availability  
Work with HDFS  
commands, file  
permissions,  
and storage  
management  
Move data, and  
use YARN to

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**allocate**

**resources and**

**schedule jobs**

**Manage job**

**workflows with**

**Oozie and Hue**

**Secure,**

**monitor, log,**

**and optimize**

**Hadoop**

**Benchmark and**

**troubleshoot**

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**Hadoop**

**JSON is becoming the backbone for meaningful data interchange over the internet. This format is now supported by an entire**

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ecosystem of  
standards,  
tools, and  
technologies  
for building  
truly elegant,  
useful, and  
efficient  
applications.  
With this  
hands-on  
guide, author

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and architect

Tom Marrs

shows you how  
to build enter  
prise-class  
applications  
and services  
by leveraging  
JSON tooling  
and message/do  
cument design.  
JSON at Work

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provides  
application  
architects and  
developers  
with  
guidelines,  
best  
practices, and  
use cases,  
along with  
lots of real-  
world examples

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and code

samples.

You'll start

with a

comprehensive

JSON overview,

explore the

JSON

ecosystem, and

then dive into

JSON's use in

the

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enterprise.

Get acquainted  
with JSON  
basics and  
learn how to  
model JSON  
data Learn how  
to use JSON  
with Node.js,  
Ruby on Rails,  
and Java  
Structure JSON



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documents with  
JSON Schema to  
design and  
test APIs  
Search the  
contents of  
JSON documents  
with JSON  
Search tools  
Convert JSON  
documents to  
other data

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formats with  
JSON Transform  
tools Compare  
JSON-based  
hypermedia  
formats,  
including HAL  
and jsonapi  
Leverage  
MongoDB to  
store and  
access JSON

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documents Use

Apache Kafka

to exchange

JSON-based

messages

between

services

Machine

Learning

Building Data

Centers with

VXLAN BGP EVPN

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**Practical Ext**

**JS 4**

**Introduction  
to Information  
Retrieval**

**The Structure  
of Digital  
Computing**

**Designing and  
Building Big  
Data Systems  
using the**

*Page 92/300*

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**Hadoop**

**Ecosystem**

**How 45**

**Successful**

**Companies Used**

**Big Data**

**Analytics to**

**Deliver**

**Extraordinary**

**Results**

*Feature engineering is  
a crucial step in the*

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*machine-learning pipeline, yet this topic is rarely examined on its own. With this practical book, you'll learn techniques for extracting and transforming features—the numeric representations of raw data—into formats for machine-*

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*learning models. Each chapter guides you through a single data problem, such as how to represent text or image data. Together, these examples illustrate the main principles of feature engineering. Rather than simply teach these principles, authors Alice Zheng*

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*and Amanda Casari focus on practical application with exercises throughout the book. The closing chapter brings everything together by tackling a real-world, structured dataset with several feature-engineering techniques. Python packages including*



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*numpy, Pandas, Scikit-learn, and Matplotlib are used in code examples. You'll examine: Feature engineering for numeric data: filtering, binning, scaling, log transforms, and power transforms*  
*Natural text techniques: bag-of-*

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*words, n-grams, and  
phrase detection  
Frequency-based  
filtering and feature  
scaling for  
eliminating  
uninformative  
features Encoding  
techniques of  
categorical variables,  
including feature  
hashing and bin-  
counting Model-based*

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*feature engineering  
with principal  
component analysis  
The concept of model  
stacking, using k-  
means as a  
featurization  
technique Image  
feature extraction  
with manual and deep-  
learning techniques  
Data is arriving  
faster than you can*

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*process it and the overall volumes keep growing at a rate that keeps you awake at night. Hadoop can help you tame the data beast. Effective use of Hadoop however requires a mixture of programming, design, and system administration skills.*

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*"Hadoop Beginner's Guide" removes the mystery from Hadoop, presenting Hadoop and related technologies with a focus on building working systems and getting the job done, using cloud services to do so when it makes sense. From basic concepts and initial*

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*setup through  
developing  
applications and  
keeping the system  
running as the data  
grows, the book gives  
the understanding  
needed to effectively  
use Hadoop to solve  
real world problems.  
Starting with the  
basics of installing  
and configuring*

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*Hadoop, the book explains how to develop applications, maintain the system, and how to use additional products to integrate with other systems. While learning different ways to develop applications to run on Hadoop the book also covers tools such as*

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*Hive, Sqoop, and Flume that show how Hadoop can be integrated with relational databases and log collection. In addition to examples on Hadoop clusters on Ubuntu uses of cloud services such as Amazon, EC2 and Elastic MapReduce are covered.*



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Sqoop, and Mahout,  
all of which have seen  
major new versions  
recently. In short, this  
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up-to-date coverage  
of Hadoop available  
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provides a collection  
of 104 tested,  
instantly useful  
techniques for  
analyzing real-time  
streams, moving data*

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*securely, machine learning, managing large-scale clusters, and taming big data using Hadoop. This completely revised edition covers changes and new features in Hadoop core, including MapReduce 2 and YARN. You'll pick up hands-on best practices for*

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*integrating Spark,  
Kafka, and Impala  
with Hadoop, and get  
new and updated  
techniques for the  
latest versions of  
Flume, Sqoop, and  
Mahout. In short, this  
is the most practical,  
up-to-date coverage  
of Hadoop available.  
Readers need to know  
a programming*

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*language like Java  
and have basic  
familiarity with  
Hadoop. What's  
Inside Thoroughly  
updated for Hadoop 2  
How to write YARN  
applications Integrate  
real-time technologies  
like Storm, Impala,  
and Spark Predictive  
analytics using  
Mahout and RR*

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*Readers need to know a programming language like Java and have basic familiarity with Hadoop. About the Author Alex Holmes works on tough big-data problems. He is a software engineer, author, speaker, and blogger specializing in large-scale Hadoop*



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management to server  
configuration. You'll  
learn how to create  
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Facter to gather  
configuration data  
from your servers.  
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*administrators, and  
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you how to maximize  
its capabilities and  
customize it for your  
environment. Install  
and configure Puppet  
to immediately start  
automating tasks and  
create reporting  
solutions Learn  
insider tricks and  
techniques to better*

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*infrastructure*

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*Handbook*

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testers simulate  
cyber attacks to  
find security  
weaknesses in  
networks,  
operating

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to the core

skills and

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virtual

machine-based

lab that

includes Kali

Linux and

vulnerable

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run through a  
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practical  
lessons with  
tools like  
Wireshark, Nmap,  
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along with the  
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attacks, you'll  
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keys with brute-  
forcing and  
wordlists -Test  
web applications  
for  
vulnerabilities  
-Use the  
Metasploit  
Framework to  
launch exploits  
and write your  
own Metasploit  
modules

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-Automate social-  
engineering  
attacks -Bypass  
antivirus  
software -Turn  
access to one  
machine into  
total control of  
the enterprise  
in the post  
exploitation  
phase You'll  
even explore  
writing your own

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exploits. Then  
it's on to  
mobile hacking—W  
eidman's  
particular area  
of research—with  
her tool, the  
Smartphone  
Pentest  
Framework. With  
its collection  
of hands-on  
lessons that  
cover key tools

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and strategies,  
Penetration  
Testing is the  
introduction  
that every  
aspiring hacker  
needs.

In Designing  
Cloud Data  
Platforms, Danil  
Zburivsky and  
Lynda Partner  
reveal a six-  
layer approach

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that increases flexibility and reduces costs. Discover patterns for ingesting data from a variety of sources, then learn to harness pre-built services provided by cloud vendors.

Summary



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Centralized data warehouses, the long-time defacto standard for housing data for analytics, are rapidly giving way to multi-faceted cloud data platforms. Companies that embrace modern cloud data

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platforms

benefit from an  
integrated view  
of their

business using

all of their

data and can

take advantage

of advanced

analytic

practices to

drive

predictions and

as yet

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unimagined data services.

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based data, keep it secure, and using advanced analytic and BI tools to analyze it. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

About the

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technology Well-  
designed  
pipelines,  
storage systems,  
and APIs  
eliminate the  
complicated  
scaling and  
maintenance  
required with on-  
prem data  
centers. Once  
you learn the  
patterns for

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designing cloud data platforms, you'll maximize performance no matter which cloud vendor you use. About the book In *Designing Cloud Data Platforms*, Danil Zburivsky and Lynda Partner reveal a six-layer

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approach that increases flexibility and reduces costs. Discover patterns for ingesting data from a variety of sources, then learn to harness pre-built services provided by cloud vendors.



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What's inside  
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the reader For  
data  
professionals  
familiar with  
the basics of  
cloud computing,  
and Hadoop or  
Spark. About the  
author Danil  
Zburivsky has  
over 10 years of  
experience  
designing and  
supporting large-

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scale data  
infrastructure  
for enterprises  
across the  
globe. Lynda  
Partner is the  
VP of Analytics-  
as-a-Service at  
Pythian, and has  
been on the  
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platforms

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is an anthology

of high-end

wisdom from a

group of

accomplished

database

administrators

who are quietly

but relentlessly

pushing the

performance and

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feature envelope  
of Microsoft SQL  
Server 2012.

With an emphasis  
upon

performance—but  
also branching  
into release  
management,

auditing, and  
other issues—the  
book helps you  
deliver the most  
value for your

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company's  
investment in  
Microsoft's  
flagship  
database system.  
Goes beyond the  
manual to cover  
good techniques  
and best  
practices  
Delivers  
knowledge  
usually gained  
only by hard



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experience

Focuses upon  
performance,  
scalability,  
reliability

Helps achieve  
the

predictability  
needed to be in  
control at all  
times

Gain a broad  
foundation of  
advanced data

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analytics

concepts and

discover the

recent

revolution in

databases such

as Neo4j,

Elasticsearch,

and MongoDB.

This book

discusses how to

implement ETL

techniques

including

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topical

crawling, which is applied in domains such as high-frequency algorithmic trading and goal-oriented dialog systems. You'll also see examples of machine learning concepts such as semi-supervised

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learning, deep learning, and NLP. Advanced Data Analytics Using Python also covers important traditional data analysis techniques such as time series and principal component analysis. After

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reading this book you will have experience of every technical aspect of an analytics project. You'll get to know the concepts using Python code, giving you samples to use in your own projects. What

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You Will Learn  
Work with data  
analysis  
techniques such  
as  
classification,  
clustering,  
regression, and  
forecasting  
Handle  
structured and  
unstructured  
data, ETL  
techniques, and

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different kinds  
of databases  
such as Neo4j,  
Elasticsearch,  
MongoDB, and  
MySQL Examine  
the different  
big data  
frameworks,  
including Hadoop  
and Spark  
Discover  
advanced machine  
learning

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concepts such as semi-supervised learning, deep learning, and NLP Who This Book Is For Data scientists and software developers interested in the field of data analytics. Navy analysts are struggling



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to keep pace  
with the growing  
flood of data  
collected by  
intelligence,  
surveillance,  
and  
reconnaissance  
sensors. This  
challenge is  
sure to  
intensify as the  
Navy continues  
to field new and

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additional  
sensors. The  
authors explore  
options for  
solving the  
Navy's "big  
data" challenge,  
considering  
changes across  
four dimensions:  
people, tools  
and technology,  
data and data  
architectures,

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and demand and  
demand

management.

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*Digital Computing takes a fifty year perspective on computing and discusses what is significant, what is novel, what endures, and why it is all so confusing. The book tries to balance two point of views: digital computing as viewed from a business*

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*modern big data  
science. Scientific  
analysis of big data  
requires a working  
knowledge of machine  
learning, which forms  
predictions based on  
known properties  
learned from training  
data. Machine  
Learning is an  
accessible,  
comprehensive guide*

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*for the non-  
mathematician,  
providing clear  
guidance that allows  
readers to: Learn the  
languages of machine  
learning including  
Hadoop, Mahout, and  
Weka Understand  
decision trees,  
Bayesian networks,  
and artificial neural  
networks Implement*

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*the skills and  
techniques required to  
dig deeper.*

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information about big  
data technologies, but  
splicing these  
technologies into an  
end-to-end enterprise  
data platform is a  
daunting task not  
widely covered. With  
this practical book,*

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build big data  
infrastructure both on-  
premises and in the  
cloud and successfully  
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data platform. Ideal  
for enterprise  
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managers, application  
architects, and data  
engineers, this book  
shows you how to*



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while maintaining  
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high availability  
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Second Edition brings  
you up to speed on*

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level on the hottest  
cloud-computing  
framework*

*Summary Modern data  
science solutions need  
to be clean, easy to  
read, and scalable. In  
Mastering Large  
Datasets with Python,  
author J.T. Wolohan  
teaches you how to  
take a small project*



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*Programming techniques that work well on laptop-sized data can slow to a crawl—or fail altogether—when applied to massive files or distributed datasets. By mastering the powerful map and reduce paradigm, along with the Python-*

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*based tools that support it, you can write data-centric applications that scale efficiently without requiring codebase rewrites as your requirements change. About the book Mastering Large Datasets with Python teaches you to write code that can handle datasets of any size.*

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*and reduce paradigm  
firmly in place, you'll  
explore tools like  
Hadoop and PySpark  
to efficiently process  
massive distributed  
datasets, speed up  
decision-making with  
machine learning, and  
simplify your data  
storage with AWS S3.  
What's inside An  
introduction to the map*

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*and reduce paradigm*

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*Running AWS jobs to  
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Python programmers*

*who need to work*

*faster with more data.*

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*Wolohan is a lead data scientist at Booz Allen Hamilton, and a PhD researcher at Indiana University,*

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*Integration for the Web*

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Guide*

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coherent, this  
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classical and web  
information retrieval,  
including web search  
and the related areas  
of text classification  
and text clustering

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from basic concepts. It gives an up-to-date treatment of all aspects of the design and implementation of systems for gathering, indexing, and searching documents; methods for evaluating systems; and an introduction to the

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the right combination  
of architecture,  
design, and  
implementation  
information to create  
analytical systems that  
go beyond the basics  
of classification,  
clustering, and  
recommendation.

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Pro Hadoop Data Analytics emphasizes best practices to ensure coherent, efficient development. A complete example system will be developed using standard third-party components that consist of the tool

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metrics to measure performance and efficiency of components and systems Connect to standard relational databases, noSQL data sources, and more Follow case studies with example components to create your own systems

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For Software  
engineers, architects,  
and data scientists  
with an interest in the  
design and  
implementation of  
big data analytical  
systems using  
Hadoop, the Hadoop  
ecosystem, and other  
associated

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technologies.

"Cowritten by members of Oracle's big data team, [this book] provides complete coverage of Oracle's comprehensive, integrated set of products for acquiring, organizing, analyzing, and



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leveraging

unstructured data.

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NoSQL Database,  
Oracle Endeca,  
Oracle Advanced  
Analytics, and  
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deploy, and maintain  
Apache Spark with  
this comprehensive  
guide, written by the

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creators of the open-source cluster-computing framework. With an emphasis on improvements and new features in Spark 2.0, authors Bill Chambers and Matei Zaharia break down Spark topics into distinct sections, each

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with unique goals.

You ' ll explore the basic operations and common functions of Spark ' s structured APIs, as well as Structured Streaming, a new high-level API for building end-to-end streaming applications.

Developers and

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system administrators will learn the fundamentals of monitoring, tuning, and debugging Spark, and explore machine learning techniques and scenarios for employing MLlib, Spark ' s scalable machine-learning library. Get a gentle

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overview of big data  
and Spark Learn  
about DataFrames,  
SQL, and  
Datasets—Spark ' s  
core APIs—through  
worked examples  
Dive into Spark ' s  
low-level APIs,  
RDDs, and execution  
of SQL and  
DataFrames

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Understand how Spark runs on a cluster Debug, monitor, and tune Spark clusters and applications Learn the power of Structured Streaming, Spark ' s stream-processing engine Learn how you can apply MLlib to a

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variety of problems,  
including  
classification or  
recommendation

Principles and  
Techniques for Data  
Scientists

Pro Apache Hadoop  
A Survey

Practical Performant  
Programming for  
Humans



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Helping the Navy  
Address the Rising  
Tide of Sensor  
Information  
JSON at Work  
Data Pipelines with  
Apache Airflow  
Handbook of Big  
Data provides a  
state-of-the-art  
overview of the  
analysis of large-

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scale datasets.

Featuring  
contributions from  
well-known experts  
in statistics and  
computer science,  
this handbook  
presents a  
carefully curated  
collection of  
techniques from  
both industry and

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academia. Thus,  
the text instills a  
working  
understanding of  
key statistical  
This book deals  
with Anna  
University  
Regulation 2013  
for the Syllabus  
CS 6703  
Introduction to

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Grid and Cloud  
Computing. There  
are Five units  
covered in this  
book. Following  
are the unit plan of  
the book. UNIT I  
INTRODUCTION  
Evolution of  
Distributed  
computing:  
Scalable

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computing over  
the Internet -  
Technologies for  
network based  
systems - clusters  
of cooperative  
computers - Grid  
computing  
Infrastructures -  
cloud computing -  
service oriented  
architecture -

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Introduction to  
Grid Architecture  
and standards -  
Elements of Grid -  
Overview of Grid  
Architecture. UNIT  
II GRID  
SERVICES -  
Introduction to  
Open Grid  
Services  
Architecture

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(OGSA) -

Motivation -

Functionality

Requirements -

Practical &

Detailed view of

OGSA/OGSI -

Data intensive grid

service models -

OGSA services.

UNIT III

VIRTUALIZATION

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- Cloud

deployment

models: public,

private, hybrid,

community -

Categories of

cloud computing:

Everything as a

service:

Infrastructure,

platform, software

- Pros and Cons



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of cloud computing  
- Implementation  
levels of  
virtualization -  
virtualization  
structure -  
virtualization of  
CPU, Memory and  
I/O devices -  
virtual clusters and  
Resource  
Management -

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Virtualization for  
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source grid  
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(GT4) Architecture,  
Configuration -

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Usage of Globus -  
Main components  
and Programming  
model -  
Introduction to  
Hadoop  
Framework -  
Mapreduce, Input  
splitting, map and  
reduce functions,  
specifying input  
and output

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parameters,  
configuring and  
running a job -  
Design of Hadoop  
file system, HDFS  
concepts,  
command line and  
java interface,  
dataflow of File  
read & File write.

## UNIT V

## SECURITY - Trust

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security  
infrastructure -  
Cloud  
Infrastructure  
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host and

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application level -  
aspects of data  
security, provider  
data and its  
security, Identity  
and access  
management  
architecture, IAM  
practices in the  
cloud, SaaS,  
PaaS, IaaS  
availability in the

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cloud, Key privacy  
issues in the  
cloud.

"An Airflow bible.  
Useful for all kinds  
of users, from  
novice to expert." -  
Rambabu Posa,  
Sai Aashika  
Consultancy Data  
Pipelines with  
Apache Airflow

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teaches you how to build and maintain effective data pipelines. A successful pipeline moves data efficiently, minimizing pauses and blockages between tasks, keeping every process along the



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way operational.  
Apache Airflow  
provides a single  
customizable  
environment for  
building and  
managing data  
pipelines,  
eliminating the  
need for a  
hodgepodge  
collection of tools,

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snowflake code,  
and homegrown  
processes. Using  
real-world  
scenarios and  
examples, Data  
Pipelines with  
Apache Airflow  
teaches you how  
to simplify and  
automate data  
pipelines, reduce

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operational

overhead, and

smoothly integrate

all the

technologies in

your stack.

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print book includes

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Manning

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About the  
technology Data  
pipelines manage  
the flow of data  
from initial  
collection through  
consolidation,  
cleaning, analysis,  
visualization, and  
more. Apache  
Airflow provides a

## Access Free For Pro Hadoop By Jason Venner

single platform you can use to design, implement, monitor, and maintain your pipelines. Its easy-to-use UI, plug-and-play options, and flexible Python scripting make Airflow perfect for any data

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management task.

About the book  
Data Pipelines with  
Apache Airflow  
teaches you how  
to build and  
maintain effective  
data pipelines.

You ' ll explore the  
most common  
usage patterns,  
including

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aggregating  
multiple data  
sources,  
connecting to and  
from data lakes,  
and cloud  
deployment. Part  
reference and part  
tutorial, this  
practical guide  
covers every  
aspect of the

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directed acyclic graphs (DAGs) that power Airflow, and how to customize them for your pipeline 's needs. What's inside Build, test, and deploy Airflow pipelines as DAGs Automate moving and transforming



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data Analyze  
historical datasets  
using backfilling  
Develop custom  
components Set  
up Airflow in  
production  
environments  
About the reader  
For DevOps, data  
engineers,  
machine learning

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engineers, and  
sysadmins with  
intermediate  
Python skills.

About the author  
Bas Harenslak and  
Julian de Ruiten  
are data engineers  
with extensive  
experience using  
Airflow to develop  
pipelines for major

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companies. Bas is  
also an Airflow  
committer. Table  
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Airflow DAG 3  
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Templating tasks

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the fastest way to  
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Every enterprise  
application creates  
data, whether it ' s

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log messages, metrics, user activity, outgoing messages, or something else. And how to move all of this data becomes nearly as important as the data itself. If you're an application architect,

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developer, or  
production  
engineer new to  
Apache Kafka, this  
practical guide  
shows you how to  
use this open  
source streaming  
platform to handle  
real-time data  
feeds. Engineers  
from Confluent



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and LinkedIn who are responsible for developing Kafka explain how to deploy production Kafka clusters, write reliable event-driven microservices, and build scalable stream-processing applications with

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this platform.

Through detailed examples, you ' ll learn Kafka ' s design principles, reliability guarantees, key APIs, and architecture details, including the replication protocol, the

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controller, and the storage layer.

Understand publish-subscribe messaging and how it fits in the big data ecosystem.

Explore Kafka producers and consumers for writing and reading

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messages

Understand Kafka  
patterns and use-  
case requirements  
to ensure reliable  
data delivery Get  
best practices for  
building data  
pipelines and  
applications with  
Kafka Manage  
Kafka in

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production, and  
learn to perform  
monitoring, tuning,  
and maintenance  
tasks Learn the  
most critical  
metrics among  
Kafka ' s  
operational  
measurements  
Explore how  
Kafka ' s stream

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delivery

capabilities make it  
a perfect source  
for stream  
processing  
systems

Ready to unlock  
the power of your  
data? With this  
comprehensive  
guide, you ' ll learn  
how to build and

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maintain reliable,  
scalable,  
distributed  
systems with  
Apache Hadoop.  
This book is ideal  
for programmers  
looking to analyze  
datasets of any  
size, and for  
administrators who  
want to set up and

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run Hadoop clusters. You ' ll find illuminating case studies that demonstrate how Hadoop is used to solve specific problems. This third edition covers recent changes to Hadoop, including material on the



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new MapReduce  
API, as well as  
MapReduce 2 and  
its more flexible  
execution model  
(YARN). Store  
large datasets with  
the Hadoop  
Distributed File  
System (HDFS)  
Run distributed  
computations with

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MapReduce Use  
Hadoop 's data and  
I/O building blocks  
for compression,  
data integrity,  
serialization  
(including Avro),  
and persistence  
Discover common  
pitfalls and  
advanced features  
for writing real-

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world MapReduce  
programs Design,  
build, and  
administer a  
dedicated Hadoop  
cluster—or run  
Hadoop in the  
cloud Load data  
from relational  
databases into  
HDFS, using  
Sqoop Perform

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large-scale data  
processing with  
the Pig query  
language Analyze  
datasets with Hive,  
Hadoop ' s data  
warehousing  
system Take  
advantage of  
HBase for  
structured and  
semi-structured

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data, and

ZooKeeper for

building distributed  
systems

Advanced Data

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Python

Pro ASP.NET

MVC 3 Framework

The Ultimate

Guide to

Presenting,

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Big Data in  
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Kafka: The  
Definitive Guide  
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at Scale  
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up your code in  
high-data-volume  
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fundamental  
theory behind  
design choices,  
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efficient programs

by choosing

appropriate data

structures Speed

up matrix and

vector

computations Use

tools to compile

Python down to

machine code

Manage multiple

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I/O and

computational  
operations

concurrently

Convert

multiprocessing

code to run on

local or remote

clusters Deploy

code faster using

tools like Docker

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and managing  
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the only  
comprehensive  
guide and  
deployment  
reference for

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data center  
network fabrics  
with VXLAN and  
BGP EVPN  
technologies.

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experienced  
network  
professionals,  
three leading  
Cisco experts

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address everything from standards and protocols to functions, configurations, and operations. The authors first explain why and how data center fabrics are evolving, and introduce Cisco's



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fabric journey.

Next, they review  
key switch roles,  
essential data  
center network  
fabric terminology,  
and core concepts  
such as network  
attributes, control  
plane details, and  
the associated  
data plane

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encapsulation.

Building on this foundation, they provide a deep dive into fabric semantics, efficient creation and addressing of the underlay, multi-tenancy, control and data plane interaction,

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appliance  
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descriptions, and  
packet flows that  
can easily be  
adapted to

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accommodate  
customized  
deployments. This  
guide concludes  
with a full section  
on fabric  
management,  
introducing  
multiple  
opportunities to  
simplify, automate,  
and orchestrate

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data center  
network fabrics.  
Learn how  
changing data  
center  
requirements have  
driven the  
evolution to  
overlays, evolved  
control planes, and  
VXLAN BGP  
EVPN spine-leaf

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fabrics Discover  
why VXLAN BGP  
EVPN fabrics are  
so scalable,  
resilient, and  
elastic Implement  
enhanced unicast  
and multicast  
forwarding of  
tenant traffic over  
the VXLAN BGP  
EVPN fabric Build

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fabric underlays to  
efficiently transport  
uni- and multi-  
destination traffic  
Connect the fabric  
externally via  
Layer 3 (VRF-Lite,  
LISP, MPLS  
L3VPN) and Layer  
2 (VPC) Choose  
your most  
appropriate Multi-

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POD, multifabric,  
and Data Center  
Interconnect (DCI)  
options Integrate  
Layer 4-7 services  
into the fabric,  
including load  
balancers and  
firewalls Manage  
fabrics with POAP-  
based day-0  
provisioning,



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incremental day  
0.5 configuration,  
overlay day-1  
configuration, or  
day-2 operations  
The new  
multimedia  
standards (for  
example,  
MPEG-21)  
facilitate the  
seamless

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integration of  
multiple modalities  
into interoperable  
multimedia  
frameworks,  
transforming the  
way people work  
and interact with  
multimedia data.  
These key  
technologies and  
multimedia

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solutions interact  
and collaborate  
with each other in  
increasingly  
effective ways,  
contributing to the  
multimedia  
revolution and  
having a  
significant impact  
across a wide  
spectrum of

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consumer,  
business,  
healthcare,  
education, and  
governmental  
domains. This  
book aims to  
provide a complete  
coverage of the  
areas outlined and  
to bring together  
the researchers

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from academic and industry as well as practitioners to share ideas, challenges, and solutions relating to the multifaceted aspects of this field.

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the actionable  
steps and  
resources required  
to utilise it  
effectively. This  
book fills the  
knowledge gap by  
showing how  
major companies  
are using big data  
every day, from an  
up-close, on-the-

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ground

perspective. From  
technology, media  
and retail, to sport  
teams,

government  
agencies and  
financial

institutions, learn  
the actual  
strategies and  
processes being



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used to learn  
about customers,  
improve  
manufacturing,  
spur innovation,  
improve safety and  
so much more.  
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dip-in navigation,  
each chapter  
follows the same  
structure to give

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you the

information you  
need quickly. For  
each company  
profiled, learn what  
data was used,  
what problem it  
solved and the  
processes put it  
place to make it  
practical, as well  
as the technical

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details, challenges  
and lessons  
learned from each  
unique scenario.

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predictive analytics  
helps Amazon,  
Target, John  
Deere and Apple  
understand their  
customers

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data is behind the  
success of  
Walmart, LinkedIn,  
Microsoft and  
more Learn how  
big data is  
changing  
medicine, law  
enforcement,  
hospitality,  
fashion, science  
and banking

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Develop your own  
big data strategy  
by accessing  
additional reading  
materials at the  
end of each  
chapter

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stellar

presentations that

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audiences on the

edge of their

seats, turn your



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presentations into  
dozens of  
profitable income  
streams, master  
leading-edge  
technologies &  
speak to 1,000  
people without  
even leaving  
home, and  
automate your  
business & make

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income while you  
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Datasets with

Python

Graph Algorithms

Handbook of Big

Data

Programming Hive

A Cisco NX-OS

Perspective

Future Information

Technology - II

Managing Spark,

YARN, and

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## MapReduce

Practical Hadoop

Security is an  
excellent resource  
for administrators  
planning a  
production

Hadoop

deployment who  
want to secure  
their Hadoop  
clusters. A

detailed guide to

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the security options and configuration within Hadoop itself, author Bhushan Lakhe takes you through a comprehensive study of how to implement defined security within a Hadoop cluster in a hands-on way.

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You will start with a detailed overview of all the security options available for Hadoop, including popular extensions like Kerberos and OpenSSH, and then delve into a hands-on implementation of

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user security (with illustrated code samples) with both in-the-box features and with security extensions implemented by leading vendors. No security system is complete without a monitoring and tracing facility, so

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Practical Hadoop  
Security next  
steps you through  
audit logging and  
monitoring  
technologies for  
Hadoop, as well as  
ready to use  
implementation  
and configuration  
examples--again  
with illustrated  
code samples. The



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book concludes with the most important aspect of Hadoop security – encryption. Both types of encryptions, for data in transit and data at rest, are discussed at length with leading open source projects that

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integrate directly  
with Hadoop at no  
licensing cost.

Practical Hadoop  
Security: Explains  
importance of  
security, auditing  
and encryption  
within a Hadoop  
installation

Describes how the  
leading players  
have incorporated

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these features  
within their  
Hadoop  
distributions and  
provided  
extensions  
Demonstrates how  
to set up and use  
these features to  
your benefit and  
make your Hadoop  
installation secure  
without impacting

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performance or  
ease of use

High Performance  
Python

Parallelize and  
Distribute Your  
Python Code

Feature

Engineering for  
Machine Learning  
Practical Examples  
in Apache Spark  
and Neo4j